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Instantly Available PCI Card Power Management

Introduction

Today, PCs need to remain constantly connected to the outside world, but at the same time consume minimum power. Even when looking "idle", it is still possible to receive a message from the Internet or an incoming fax or phone call. The PC must automatically go from "sleep" mode to "on" mode, in other words, an "Instantly Available" PC (IAPC). The challenge is to maintain a system's modem or local Area network (LAN) connectivity on a desktop PC overnight while at the same time minimizing power consumption. These power management features are called Wake-on-Ring (or Wake-on-Modem), Wake-on-LAN, and Wake-on-RMT (Power Management event).

The main quality benefits of such a system are:

- Listening: available anytime to receive messages from the outside world, and
- Reacting: responding anytime to do a specific operation (maintenance...), and
- Saving energy and being silent in the idle mode.

The "OnNow" initiative by Microsoft defined the new requirements for the system. This affects both software and hardware aspects of the PC: Windows operating system, applications, device drivers, and hardware within the system. All these elements must work together in order to provide a fully transparent power management system. This note will focus only on the hardware aspects.

ACPI System Design

An instantly available PC appears to be "off", yet it can snap back to its "full ready state" within seconds and respond to the phone ringing in-line to service the call.

In order to meet these requirements a recommendation, the Advanced Configuration and Power Interface specification (ACPI), has been defined by Intel®, Microsoft®, and Toshiba®.

Instantly available motherboards include: ACPI BIOS, ACPI chip set, and PC does that are compliant to the PC 98 specification. The Intel chip set supports the power management features to define the ACPI's eco states and also generates the signals to control power planes to turn the main power supplies on and off.

The implementation includes multiple power sources and uses separate power planes in the system. Each power source is selected depending on the required state demanded by the system, and one of the major requirements is to switch between power sources continuously, automatically, and without interruption.

The "sleep" state of an instantly available PC is called "Suspend to RAM". This is implemented by using:

- soft power planes in the system design, and
- an auxiliary power source (V_{aux}) for dual mode power distribution.

Let's focus on the PC (Peripheral Component Interface) cards, where California Micro Devices' products have their primary applications. By definition, a PC add-on card is connected to the motherboard through the PCI bus. On the PC connector, several pins have been reserved in order to support the instantly available functionality.

- PML# (Power Management Event) pin (pin #A19) is used to wake the system in response to a PCI power management wake event, such as the phone ringing.
- 3.3Vaux pin (pin #A14) is used to deliver the auxiliary power of 3.3V to all the wake-up PCI cards in the system. This power is always available to keep the card active even when the rest of the PCI bus is without power.

Three different independent voltage sources are now available on the PCI bus: 3.3Vaux, 3.3V_{PCI}, and 5V_{PCI}. In a power plane partitioning system with an instantly available PC, the 3.3V_{aux} is electrically isolated from the main PCI 3.3V rail at all times. During normal operation, the 3.3V_{aux} supply remains on all the time, while the other main supplies, 3.3V_{PCI} and 5V_{PCI}, can be switched on and off as needed.

PCI Adapter Card Application

PCI Network Interface Cards (NIC) and modem cards are also designed with soft power planes. Thus, they are able to operate in a sleep mode with only the Vaux power supply and still be able to wake-up the system.

Some NICs that operate in "Wake on LAN" mode get a 5V standby through a cable that connects directly to a specific header on the motherboard.

Chip Set Voltage

Today, PCI card chip sets or ASICs operate at a low voltage of 3.3V. That allows much lower power consumption than with the previous 5V modem chips. However, "older" PCs are still operating at 5V and do not have any 3.3V_{aux} supply. Newer PCI cards must be compatible with these systems still in service, and therefore must regulate on board their own 3.3V supply from the 5V. This is made possible by using California Micro Devices' SmartOR™ power management products: the CMPWR-00 and CMPWR-50. In addition, there is a maximum current limitation of 375mA on the 3.3V_{aux}.

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Salesforce Health Cloud Accredited Professional Sample Questions (Q15-Q20):

NEW QUESTION # 15

A pharma customer requires a scheduling tool to book infusions with multiple steps as part of its Health Cloud implementation. It needs a solution for care coordinators to book appointments without having to manually check availability and resources themselves. Which solution should a consultant recommend?

- **A. Advanced Therapy Management**
- B. Intelligent Appointment Management
- C. Salesforce Scheduler
- D. Procedure Scheduling

Answer: A

NEW QUESTION # 16

During a sprint demo, a customer wants to update fields in the UI on the Patient Medication Manager component. Which two objects is a consultant able to add and/or remove fields from? Choose 2 answers

- **A. Medication Request**
- B. Medication Dispense
- **C. Medication Details**
- D. Medication Strength

Answer: A,C

Explanation:

The Patient Medication Manager component in Salesforce Health Cloud surfaces data from FHIR-aligned medication objects. When customers request field updates on this UI component, the consultant can configure fields from the underlying objects.

A . Medication Details → Stores key information about a patient's medications. Fields from this object can be exposed or customized on the Patient Medication Manager.

C . Medication Request → Represents a provider's request or order for a medication. Fields from this object are also available to configure in the Patient Medication Manager.

Together, these two objects form the basis of what's displayed and editable in the Patient Medication Manager.

Why not the others?

B . Medication Dispense - Tracks when and how a medication was dispensed. It is not directly configurable for field-level updates in the Patient Medication Manager component.

D . Medication Strength - Captures clinical details about dosage strength, but it isn't one of the configurable objects in the Patient Medication Manager UI.

Salesforce Health Cloud Reference:

Salesforce Health Cloud Medication Management:

"The Patient Medication Manager component displays information from Medication Details and Medication Request objects. Administrators can add or remove fields from these objects to tailor the component."

NEW QUESTION # 17

A customer compliance department requires encryption at rest, notification of activities, and extensive field tracking. What are some key considerations and recommended practices for supporting compliance in Salesforce?

- A. Use Role Hierarchy to control data access, implement password policies for user accounts, and use IP Restrictions to limit access to trusted networks.
- B. Enable Field Audit Trail, implement encryption for sensitive data, and configure two-factor authentication for all users.
- **C. Enable Salesforce Shield to monitor data access and usage, configure data Classification for sensitive data, and use Event Monitoring to track user activity.**
- D. Use the Salesforce Security Health Check to identify vulnerabilities, implement custom profiles and permission sets to control data access, and configure Data Loss Prevention policies to prevent data leakage.

Answer: C

Explanation:

The requirement is:

Encryption at rest → Handled by Salesforce Shield Platform Encryption.

Notification of activities (user monitoring, data access) → Provided by Event Monitoring in Salesforce Shield.

Extensive field tracking → Achieved with Field Audit Trail, also part of Salesforce Shield.

That's why the correct answer is the Salesforce Shield bundle, which directly addresses all three compliance needs.

Why not the others?

A . Role Hierarchy, Password Policies, IP Restrictions → These are basic Salesforce security features, but they don't provide encryption at rest or activity monitoring.

B . Field Audit Trail + Encryption + 2FA → Close, but Field Audit Trail and Encryption require Shield anyway, and 2FA is important but doesn't meet the monitoring requirement.

D . Security Health Check + DLP policies → Useful for improving org security posture, but Salesforce does not have native DLP policies like in other security platforms. This doesn't satisfy the encryption + monitoring requirement.

Salesforce Health Cloud / Security Reference:

Salesforce Shield Overview:

"Use Shield Platform Encryption for encryption at rest."

"Use Event Monitoring to monitor and track user activity across apps."

"Use Field Audit Trail to retain field value changes for compliance requirements."

NEW QUESTION # 18

Bloomington Caregivers is implementing Health Cloud to reduce manual processes for its Contact Center agents. To help streamline caller authentication, the company plans to leverage out-of-the-box Health Cloud features.

Which Health Cloud feature should a consultant recommend the company use in this scenario?

- A. Verify Customer Identity Process Flow
- B. Reusable Verification FlexCards
- C. Identity Verification Flow Templates
- D. Customer Identity OmniScript Templates

Answer: C

Explanation:

Out-of-the-box caller authentication in Health Cloud is primarily supported through Identity Verification Flow Templates. These flow templates are designed to help organizations comply with HIPAA and other regulatory requirements by standardizing the caller verification process for contact center agents.

Step-by-Step Reference:

Health Cloud provides Identity Verification Flow Templates that streamline the authentication of callers, reducing manual processes and ensuring regulatory compliance.

Extract:

"Use the Health Cloud Identity Verification Flow Templates to verify a caller's identity based on information you select, such as date of birth, phone number, or other criteria." (Source: Administer Health Cloud) These templates can be deployed as standard flows and easily customized for the organization's authentication requirements.

Extract:

"Leverage out-of-the-box Identity Verification Flow Templates to quickly set up and deploy identity verification processes in your contact center." (Source: Administer Health Cloud - Identity Verification) This approach is preferred over FlexCards, OmniScripts, or ad-hoc processes, as it provides a compliant and guided experience.

NEW QUESTION # 19

Bloomington Caregivers is implementing Virtual Care in Health Cloud.

Which three steps are required as part of the setup?

Choose 3 answers

- A. Connect to an external electronic health record (EHR) scheduling system.
- B. Install the Virtual Care unmanaged package.
- C. Assign Health Cloud Video Calls permission set.
- D. Set up and configure Salesforce Scheduler.
- E. Configure Provider Search,

Answer: B,C,D

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